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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/443,779	11/19/1999	SU CHIN CHANG	13237-2495	7712

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EXAMINER

SPOONER, LAMONT M

ART UNIT

PAPER NUMBER

2626

DATE MAILED: 06/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/443,779

Applicant(s)

CHANG ET AL.

Examiner

Lamont M. Spooner

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 April 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17,20-23,32 and 33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17,20-23,32 and 33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 November 1999 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to the pending claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-9 rejected under 35 U.S.C. 102(b) as being anticipated by Loatman (US 4,914,590).

As per **claims 1, 7, 8**, Loatman et al teach a method for analyzing and debugging natural language parses, comprising (figures 8A-16B):

“Displaying a parse tree for a textual input, the parse tree being generated based on rules and comprising at least one connecting point having two children” (figure 8a, col. 36, lines 2 1-55, the complex sentence

"Reagan warned... the strait" is parsed and the parse tree shown in figure 8a);

"Receiving control input selecting one of said connecting points as a selected connecting point" (col. 36, line 56 to col. 37, line 25, a graphic debugging tool that is displayed allows the user to interact with the output of the parse and to select a node (connecting point) of the parse tree); col. 17, line 1 to col. 22, line 56, his system browser);

"Determining whether a constituent was formed at said connecting point" (col. 37, lines 7-25, the leaf nodes represent the individual words of input which have been morphologically analyzed); and

"if the determination is positive, displaying a plurality of display items proximate to said selected connecting point" (col. 37, lines 14-25, the user has bugged the node which hold the parse of the clause and a menu of that clause is displayed).

"the display items including alternate rules, other than the rules used in generating a constituent at the selected connecting point" (Fig 9B-his FO933 variables menu as proximate, also Fig. 19-his verification of the parse for "dirty" interpreted also as alternate rules, C.45.lines 65-68-his return to parse, C.45.lines 20-64-his menu, Fig. 14, his menu of items

interpreted to include alternate rules other than rules used in generating a constituent at the selected connecting point).

As per **claim 2**, Loatman et al teach "receiving control input one of said plurality of menu..." (figures 10a-10b, the user interact with three window, col. 37, lines 30-54, col. 17, line 1 to col. 22, line 56, his system browser in particular section 2- 4. 1.3, col. 2 1, lines 37-48 that recites pressing the right button, bring s a menu of graph editing options where a link / node can be deleted);

"In response to receiving said control input for deleting said constituent , deleting said constituent" (col. 21, lines 35-47, a node is deleted accordingly).

As per **claim 3**, Loatman et al teach receiving control input for selecting one of said plurality of display items for deleting said parse tree" (col. 22, lines 48-57, the DeleteLink Fn prompts for the From and To nodes from which delete the link and the graph (parse tree)).

"In response...deleting constituent formed at each connecting point in said parse tree" (col. 22, lines 48-59).

As per **claim 4**, Loatman et al teach "receiving control input selecting ..displaying information regarding said children of said selected connecting

point" (figures 43A through 43D, col. 31, line 64 to col. 32, line 50, particularly col. 32, lines 18-24);

"Displaying information regarding said children of said selected connecting point" (figures 43A through 43D, col. 31, line 64 to col. 32, line 50, particularly col. 32, line 18-24, his system browser can display all the parse showing the links (nodes) of parent and children).

As per **claim 5**, Loatman et al teach displaying a first plurality of menu ... identifying a grammar rule applied at said selected point to form constituent" (col. 38, line 35 to col. 40, line 2 his grammar development example).

As per **claim 6**, Loatman et al further teach wherein said control input selecting one of said connecting points as a selected connecting point comprises: "

Receiving input from an input placing a pointer of a user interface proximate to one of said connecting point" (col. 17, lines 1-50, the user selects any displayed node to be operated on with a browser windows that acts as menus); and

"receiving input representing an enabled state for the control of the input device" (col. 17 , lines 1-40),.

As per **claim 9** , Loatman et al teach determining whether a constituent was formed at said selected connecting point comprises determining whether a rule was successfully applied at said selected connecting ..." (Col. 37, line 65 to col. 38, , line 20).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 10-17, 20-23, 32 and 33 rejected under 35 U.S.C. 103(a) as being unpatentable over (Loatman, US 4,914,590).

Claim 10 recites the limitations of claim 1 (see rejection of claim 1 above), and further recites the menu items including an alternate grammar rule display items which when activated, displays alternate grammar rules comprising grammar rules not successfully applied in generating the parse tree (fig. 19 his verification of the parse of dirty-those rules were not applied at all, thus interpreted as not successfully applied, once chosen they may be applied, successfully or unsuccessfully), but lacks, displaying a plurality of display items proximate to said selected connecting point, wherein, the

display items including alternate rules, other than the rules used in generating a constituent at the selected connecting point.

However, the Examiner notes that having a menu proximate to a selected node is evidenced by Loatman (Fig. 14 and Fig. 9b). Therefore, at the time of the invention, it would have been obvious to modify the embodiment of Fig. 9b with the embodiment of Fig. 19, his menu. The motivation for doing so would have been to view a menu near a selected item (such as a node being debugged/edited, etc.).

As per **claim 11**, Loatman et al teach receiving control selecting one of said plurality of menu items (col. 17, line 1 to col. 22, line 57, his system browser wherein when a node is selected, menus are displayed relate to examining and modifying things, provide database search and edit the window's graph);

“in response to receiving user input...displaying a second plurality of menus item proximate to said plurality of menu items” (col. 17, lines 52-61, a menu of the object slot is displayed , then when a slot is selected a menu of its facets will pop up).

As per claims **12- 16**, Loatman et al teach receiving control input selecting, activating the alternate grammar rules display item... connecting point; (figure 9b, Fig. 19),. and

“displaying a first group of rules comprising all of the rules that may be applied at said selected connecting point of said constituents of said connecting point” (figure 9b, col. 11, line 10 to col. 12, line 12).

As per claims **17, 20-23 and 32-33**, Loatman et al teach receiving control input activating the alternate grammar rules display items for displaying a group of alternate rules applied at said selected connecting point that did not successfully form a constituent at said selected connecting point and displaying of alternate rules (see claim 1 positive determination discussion, claim 1 and 10 alternative rules not applied discussion, also figure 9b-his z as the bug point, Fig. 19-his “dirty not recognized” and verification as successful and unsuccessful determination, col. 45, lines 21-68, -wherein the rules are included in his alternate rules, and the determination is deemed unsuccessful, thus prompting the dirty not being recognized).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamont M. Spooner whose telephone number is 571/272-7613. The examiner can normally be reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571/272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

lms
6/21/06


RICHEMOND DORVIL
SUPERVISORY PATENT EXAMINER